

EN 8-Channel Relay Unit (498)

The DIGIDIM 498 8-Channel Relay Unit is fitted with high-inrush specification relays, rated at 16 A per channel, which handle short-lived, high-peak inrush currents during switch-on of loads.

It can be networked through either DALI or SDIM communication to be incorporated into a DIGIDIM or Imagine lighting control system.

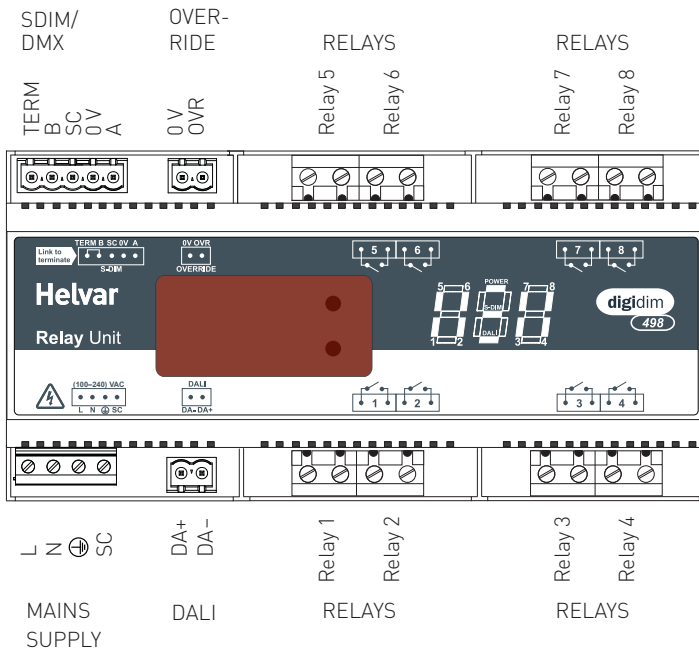
The unit has an intuitive LED segment display and push buttons for monitoring, manual configuration and control purposes.



Key Features

- High-inrush specification relays (single pole, normally open).
- Wired override input to allow for external triggers.
- LED segment display and push buttons.
- Can operate as:
 - 8 individual channels (8 × 1)
 - 4 sets of 2 channels (4 × 2)
 - 2 sets of 4 channels (2 × 4)

Connections



Technical Data

Connections

Mains/relay:	Up to 4 mm ² solid or up to 2.5 mm ² stranded
DALI:	0.5 mm ² – 1.5 mm ² solid or stranded. Max. length: 300 m @ 1.5 mm ² .
SDIM/DMX:	0.22 mm ² – 1.5 mm ² low-loss RS485 type (multistranded, twisted and shielded). Max. length: 1000 m (low-loss cable). Examples: Belden 8102 or Alpha 6222C. Note: One twisted pair for A and B (85 Ω to 100 Ω impedance), one core or twisted pair for 0 V, and shield for screen.

Cable rating: Mains cables, relay cables and DALI cables must be mains rated.

Power

Mains supply:	100 VAC – 240 VAC (nominal) 85 VAC – 264 VAC (absolute) 45 Hz – 65 Hz
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Power consumption: 2.6 W

Standby power consumption: 1.1 W

Internal losses: 2.1 W + max. 1.6 W per channel

External protection: The mains supply must be protected at 6 A maximum. The relays must be protected by a 16 A Type C MCB maximum.

DALI consumption: 2 mA

Compliance: Complies with DSI standard v 2.0.

Isolation: Between every connector, with this exception: 'SDIM 0 V' and 'OVR 0 V' are not isolated from each other.

Inputs

Communication:	DALI, SDIM and DMX
Override:	Wired override input
User interface:	2 push buttons for configuration
Channels:	8 (2 channels per four-way connector)
Relay contacts:	High inrush (800 A at 200 μs), single-pole, single-throw (SPST) relay. W premake contact + AgSnO ₂ . Optimised for high currents.
Relay voltage:	240 VAC (400 VAC between channels)
Max. load per contact:	16 A resistive/incandescent 10 A HID (cos φ = 0.6)
Number of devices:	For ballasts, quantity is limited by MCB; refer to manufacturer's data. These are power relays and therefore not suitable for extra-low voltage operation. Where power relays are used to control contactors, make sure that snubbers are fitted.

Mechanical data

Dimensions:	160 mm × 90 mm × 58 mm
Housing:	Plastic (polycarbonate) DIN-rail case
Weight:	400 g
Mounting:	DIN rail (installation in switchgear/controlgear cabinet)
IP code:	IP30 (IP00 at terminals)

Operating and storage conditions

Ambient temperature:	0 °C to +40 °C
Relative humidity:	Max. 90 %, noncondensing
Storage temperature:	-10 °C to +70 °C

Conformity and standards

EMC emission:	EN 55015
EMC immunity:	EN 61547
Safety:	EN 61347-2-11
DALI:	DALI standard IEC 60929, with Helvar additions
SDIM:	Helvar SDIM protocol
DMX:	DMX512-A protocol (max. refresh rate: 33 Hz)
Environment:	Complies with WEEE and RoHS directives.

Dimensions (mm)

